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**Declaration under Rule 4.17:**

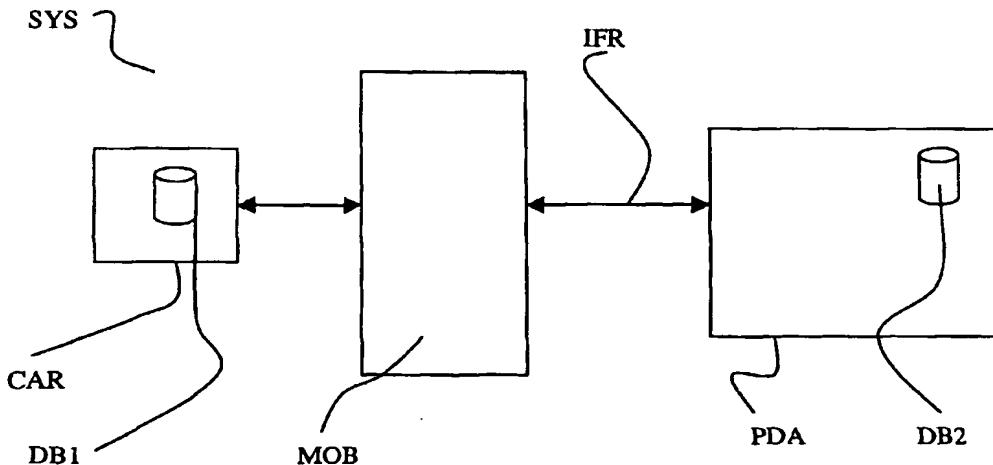
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(54) Title: DATABASES SYNCHRONIZATION



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(57) Abstract: The invention deals with database synchronization. A first database (DB1) is stored in a removable device for example a smartcard (CAR) communicating with a first system (MOB). A second database(DB2) of the same nature being stored in a second system (PDA) communicating with said first system.Said first and second system (MOB, PDA) comprises means able to generate synchronization objects defining the last database synchronization which has been performed between said two databases of saidtwo systems. After each synchronization step of the first database (DB1) with the second database (DB2),a program external to the removable device (CAR) sends a command to the removable device (CAR) forsetting a synchronization object to said first database (DB1), said synchronization object being also affectedto the second database (DB2) which has been synchronized.



*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

## INTERNATIONAL SEARCH REPORT

PCT/IB 03/03216

A. CLASSIFICATION OF SUBJECT MATTER  
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## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 710 922 A (ALLEY PETER E ET AL) 20 January 1998 (1998-01-20) column 2, line 4-27 column 2, line 49-54 column 9, line 58 -column 10, line 39 ---	1-12
A	EP 1 024 441 A (PHONE COM INC) 2 August 2000 (2000-08-02) page 2, line 34-38 page 3, line 20-53 ---	1-12
A	WO 02 17134 A (ERICSSON TELEFON AB L M ; BIRKLER JOERGEN (SE); NOVAK LARS (SE)) 28 February 2002 (2002-02-28) page 3, line 4 -page 4, line 12 ---	1-12

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	ROBERT K LOCKHART ET AL: "Specifications for Ir Mobile Communications" SPECIFICATIONS FOR IR MOBILE COMMUNICATIONS (IRMC), XX, XX, 1 March 1999 (1999-03-01), XP002155443 page 29, paragraph 1 -page 30, paragraph 8 page 31, paragraph 1 -page 32, paragraph 1 -----	1-12

## INTERNATIONAL SEARCH REPORT

PCT/03/03216

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 5710922	A	20-01-1998	NONE		
EP 1024441	A	02-08-2000	CN	1262481 A	09-08-2000
			EP	1024441 A2	02-08-2000
			JP	2000235513 A	29-08-2000
WO 0217134	A	28-02-2002	AU	8589601 A	04-03-2002
			WO	0217134 A1	28-02-2002
			EP	1311991 A1	21-05-2003